

[1단계: R Base 설치]

Step 1: <https://www.r-project.org/> 접속

Step 2: download R 클릭



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The R Project for Statistical Computing

Getting Started

R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To **download R**, please choose your preferred [CRAN mirror](#).

If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

News

- [The R Journal Volume 7/2](#) is available.
- [R version 3.2.3 \(Wooden Christmas-Tree\)](#) has been released on 2015-12-10.>
- [R version 3.1.3 \(Smooth Sidewalk\)](#) has been released on 2015-03-09.
- [useR! 2015](#), took place at the University of Aalborg, Denmark, June 30 - July 3, 2015.

Step 3: CRAN Mirrors 중 Korea 선택 (아래 세 가지 중 하나)

Korea
<http://cran.nexr.com/>
<http://healthstat.snu.ac.kr/CRAN/>
<http://cran.biodisk.org/>

NexR Corporation, Seoul
Graduate School of Public Health, Seoul National University, Seoul
The Genome Institute of UNIST (Ulsan National Institute of Science and Technology)

Step 4: Download R for Windows 클릭

The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Step 5: install R for the first time 클릭

R for Windows

Subdirectories:

[base](#)

Binaries for base distribution (managed by Duncan Murdoch). This is what you want to [install R for the first time](#)

[contrib](#)

Binaries of contributed packages (managed by Uwe Ligges). There is also information on [third party software](#) available for CRAN Windows services and corresponding environment and make variables.

[Rtools](#)

Tools to build R and R packages (managed by Duncan Murdoch). This is what you want to build your own packages on Windows, or to build R itself.

Please do not submit binaries to CRAN. Package developers might want to contact Duncan Murdoch or Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.

Step 6: Download R 3.2.3 for Windows 클릭

R-3.2.3 for Windows (32/64 bit)

[Download R 3.2.3 for Windows](#) (62 megabytes, 32/64 bit)

[Installation and other instructions](#)

[New features in this version](#)

If you want to double-check that the package you have downloaded exactly matches the package distributed by R, you can compare the [md5sum](#) of the .exe to the [true fingerprint](#). You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

Frequently asked questions

- [How do I install R when using Windows Vista?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

Other builds

- Patches to this release are incorporated in the [r-patched snapshot build](#).
- A build of the development version (which will eventually become the next major release of R) is available in the [r-devel snapshot build](#).
- [Previous releases](#)

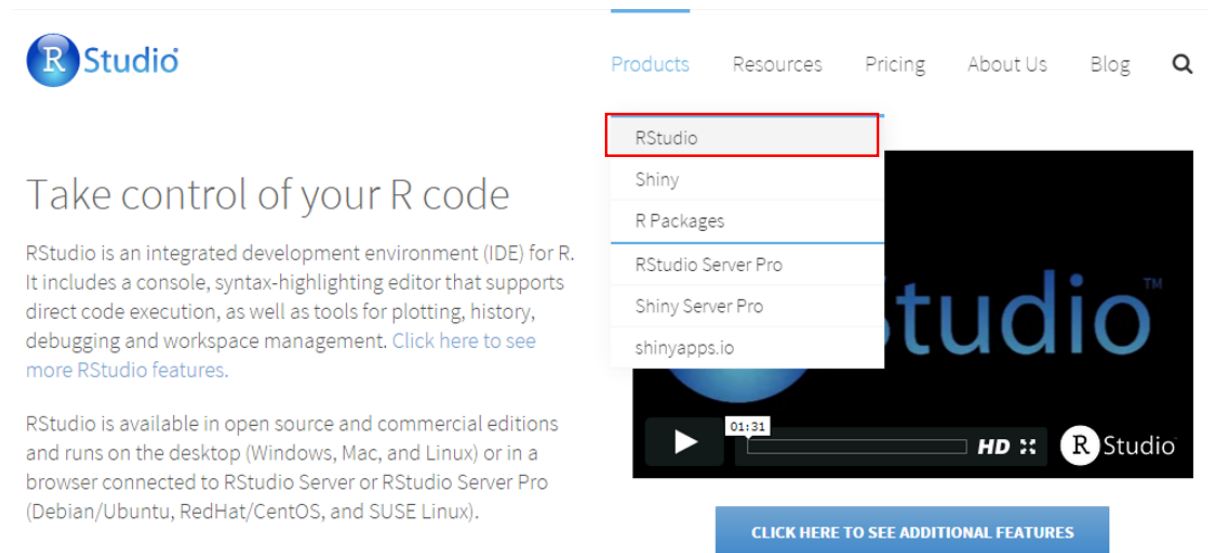
Note to webmasters: A stable link which will redirect to the current Windows binary release is [<CRAN MIRROR>/bin/windows/base/release.htm](#).

Step 7: R-3.2.3-win.exe 파일 실행하여 R base 설치

[2단계: RStudio 설치]

Step 1: <https://www.rstudio.com/> 접속

Step 2: Product → R Studio 선택



Step 3: RStudio Desktop 다운로드

RStudio Desktop

	Open Source Edition	Commercial License
Overview	<ul style="list-style-type: none">• Access RStudio locally• Syntax highlighting, code completion, and smart indentation• Execute R code directly from the source editor• Quickly jump to function definitions• Easily manage multiple working directories using projects• Integrated R help and documentation• Interactive debugger to diagnose and fix errors quickly• Extensive package development tools	<p>All of the features of open source; plus:</p> <ul style="list-style-type: none">• A commercial license for organizations not able to use AGPL software• Access to priority support
Support	Community forums only	<ul style="list-style-type: none">• Priority Email Support• 8 hour response during business hours (ET)
License	AGPL v3	RStudio License Agreement
Pricing	Free	\$995/year
	DOWNLOAD RSTUDIO DESKTOP	BUY NOW

Step 4: 운영체제에 맞는 RStudio 설치 (Windows일 경우 아래 붉은색 네모박스 파일 선택)

RStudio Desktop 0.99.491 — Release Notes

RStudio requires R 2.11.1 (or higher). If you don't already have R, you can download it [here](#).



Share your R code
on the web with Shiny
[Click here to learn more](#)

Installers for Supported Platforms

Installers	Size	Date	MD5
RStudio 0.99.491 - Windows Vista/7/8/10	73.9 MB	2015-12-30	b0448ecdeeeded07cc3c3810bba1df2
RStudio 0.99.491 - Mac OS X 10.6+ (64-bit)	56.2 MB	2015-12-30	e9d20ef34899dcdb534e239158653c6e
RStudio 0.99.491 - Ubuntu 12.04+/Debian 8+ (32-bit)	77.4 MB	2015-12-30	4e188202a8ee5da530dc1b448653e6a0
RStudio 0.99.491 - Ubuntu 12.04+/Debian 8+ (64-bit)	83.9 MB	2015-12-30	32b9484c53d840e22903b3f19c3c6f1e
RStudio 0.99.491 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	76.8 MB	2015-12-30	3fef946ebdb0b0542be1a8180228454
RStudio 0.99.491 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	77.7 MB	2015-12-30	0c02d3ec5d69e43ea0e32a3d8de443f4

Zip/Tarballs

Zip/tar archives	Size	Date	MD5
RStudio 0.99.491 - Windows Vista/7/8/10	105.5 MB	2015-12-30	1fd7bf8a8d60ecf488f8a612d7dbcf47
RStudio 0.99.491 - Ubuntu 12.04+/Debian 8+ (32-bit)	78.1 MB	2015-12-30	eb4ab2a57184be954888b9ab1fba917f
RStudio 0.99.491 - Ubuntu 12.04+/Debian 8+ (64-bit)	84.8 MB	2015-12-30	db4fcd1de09e78edad981852f2298ec4
RStudio 0.99.491 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	77.4 MB	2015-12-30	d89d86b96783837ac4e87f5d47a8929b
RStudio 0.99.491 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	78.4 MB	2015-12-30	2315839c0811c62deede4c83025cd507

Source Code

A tarball containing source code for RStudio v0.99.491 can be downloaded from [here](#)

Step 5: 다운로드된 RStudio-0.99.491.exe 파일 실행하여 설치 완료

[3단계: 필요 R Package 설치]

Step 1: R Packages install.R 파일 실행

```
1 # Press ctrl + Enter for each row to install the package
2
3 install.packages("RODBC")
4 install.packages("ggplot2")
5 install.packages("MASS")
6 install.packages("BSDA")
7 install.packages("knitr")
8 install.packages("devtools")
9 install.packages("HistData")
10 install.packages("leaps")
11 install.packages("tree")
12 install.packages("qcc")
13 install.packages("MSQC")
14
15 library(devtools)
16 install_github("ggbiplot", "vqv")
```

Step 2: 실습에 필요한 패키지 설치 및 확인

설치 방법: 각 line에서 ctrl + Enter를 입력하여 개별 패키지를 설치

확인 방법: 아래와 같이 package 'Package name' successfully unpacked and MD5 sums checked 라는 메시지가 뜨면 제대로 설치가 완료된 것임 (중간의 붉은색 메시지는 에러 메시지 아님)

```
> install.packages("RODBC")
Installing package into 'C:/Users/dsba/Documents/R/win-library/3.2'
(as 'lib' is unspecified)
trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.2/RODBC_1.3-12.zip'
Content type 'application/zip' length 829435 bytes (809 KB)
downloaded 809 KB
```

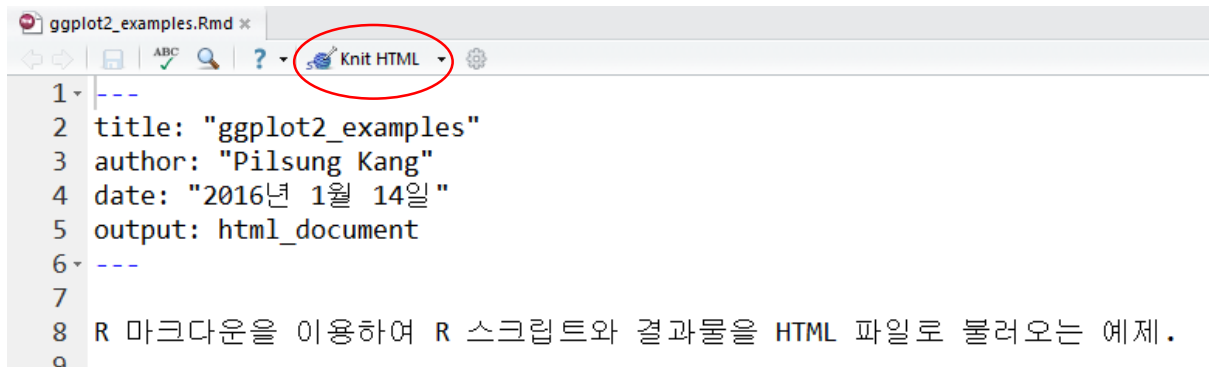
package 'RODBC' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
C:\Users\dsba\AppData\Local\Temp\RtmpisvuRd\downloaded_packages

```
> |
```

Step 3: knitr 패키지 작동 확인

확인 방법: 2일차 ggplot2_examples.Rmd 파일을 열어 아래 표시된 "Knit HTML" 버튼을 클릭하여 html 파일이 생성되는 것을 확인



<HTML 결과물>

